

SIGN UP TODAY!

Limited Classroom Seating

Please Check the Conference Track you would like to attend:

☐ **TECHNICAL TRACK** – For septic system designers, site evaluators or regulators

☐ **INSTALLER TRACK** – For septic system installers, contractors or pumpers

Name: _____

Company/Organization: _____

Street Address: _____

City, State, Zip: _____

Telephone #: _____ Fax #: _____

Email Address: _____

AzOWRA Member: ☐ **YES** ☐ **NO**

(AzOWRA members are given a \$50.00 Conference fee discount – Join AzOWRA now and SAVE!)

Conference Registration Fees:

(Includes breakfasts, lunches, and dinner Friday night.

Registration deadline is Friday, July 13th. There will be a \$50.00 service charge added to registrations received after that date. However, no registrations will be accepted at the conference.

<i>Options:</i>	<i>Fees:</i>	
2-Day Conference Fee (AzOWRA Member)	\$100.00	\$
2-Day Conference Fee (Non- Member)	\$150.00	\$
AzOWRA Membership Dues: (One year)	\$150.00	\$
Late Registration Service Fee (After July 13 th .)	\$50.00	\$
	TOTAL COST:	\$

Payment Options:

- Enclosed is a check for \$_____ payable to AzOWRA.
(Mail Registration form and check to AzOWRA PO Box 10866, Prescott, AZ 86304)
- Please charge \$_____ to the following credit card: ☐ Visa ☐ MasterCard
(Fax registration form to 928-778-2835)

Credit Card #		Expiration date:	
Name on Card:		Security Code #:	
Authorizing Signature (required):			

AzOWRA
Arizona Onsite Wastewater
Recycling Association
P.O. Box 10866
Prescott, AZ 86304

Onsite Wastewater Educational Conference & Exhibition

Presented by

AzOWRA

Arizona Onsite Wastewater
Recycling Association



Friday & Saturday
July 20th & 21st, 2007

Northern Arizona University,
Flagstaff, Arizona
Onsite Wastewater
Demonstration Facility

Attend the AzOWRA 2007 Onsite Wastewater Educational Conference at the Northern Arizona University Onsite Wastewater Demonstration Facility in Flagstaff, Arizona, on Friday and Saturday July 20th and 21st.



NAU Onsite Wastewater Demonstration Facility

AzOWRA is the Arizona affiliate of the National Onsite Wastewater Recycling Association (NOWRA). We are dedicated solely to educating and representing Arizona members of the onsite and decentralized wastewater industries.

Septic system designers, installers, contractors, engineers, real estate agents, regulators and site evaluators from all over Arizona have been invited to attend the conference. Class size is limited, so to take advantage of this unique classroom and hands-on educational opportunity. Send in your conference registration form and payment today!

Your Registration Fee includes:

- All class handouts and materials
- Certificates of completion
- Equipment manufacturer exhibits
- Continental breakfasts & Lunches
- BBQ dinner & entertainment Friday night



Arizona Onsite Wastewater Recycling Association

Contact any of the AzOWRA Board Members listed below with conference questions.

Richard Sinclair
Executive Chair
480-998-4097

Rob Brewster
Vice Chair
623-572-6699

Lou Brown
Treasurer
928-443-3333

Ed Swanson
Secretary
602-771-4440

TRACK 1 – TECHNICAL

Join AzOWRA members in learning about the onsite wastewater rules in Arizona. These sessions will help you work with the rules and regulatory agencies more easily. With this information you should be able to make complete, accurate permit submittals and spend less time on permitting issues.

After a brief review of how wastewater rules have changed in Arizona over the years, learn the basics of good system design including:

- What is a design report?
- What is an operations and maintenance manual?
- What are construction plans and
- What does the rule require you to include in each of these items.

With the basics under your belt, learn about the design requirements of most onsite wastewater technologies. Then apply this information on a larger scale when considering the challenges of subdivision development. Learn to take the costs-initial construction and long term operation-into account when deciding the direction of your subdivision.

On Saturday, learn specifics about the Eljen system (engineered pad technology) and SeptiTech.

When you have finished in the classroom you will get to see these technologies installed and ready to be put into service.

TRACK 2 – INSTALLER

On Friday the Installer Track will begin with a 3 hour review of pump fundamentals. This is an ideal program for those with little pump experience – or those who want an excellent review. The session starts with basic hydraulics and develops that information into friction loss calculations, the effect of pipe materials and pipe diameters, valves and fittings. The session concludes with an explanation of pump curves, how to establish an operating point and how to develop a system curve.

Once the pump fundamentals are in place, the program will continue with a presentation by SJE/Rhombus, a leading supplier of level controls and control panels to the wastewater pump industry.

The SJE session will begin with a review of the various types of level controls and their appropriate selection for wastewater applications. The program progresses to a review of the wide variety of standard control panels used in the waste water and on-site industries, including an explanation of how to read wiring diagrams and trouble-shooting. An excellent manual is provided that will be a useful guide for future applications.

The first session of the Saturday Installer Track will cover effluent treatment VS chlorination and the de-nitrification process, technology & basic chemistry.

The second session will cover constructed wetlands treatment including open water, subsurface, and de-nitrification trench wetlands design. You'll also learn about subsurface disposal, operation and testing, maintenance.

DAY:	TIME:	TRACK 1:	TRACK 2:
Friday	7:00 – 8:00am	Registration & continental breakfast – Exhibition Hall - Exhibits Open	
	8:00 – 10:00am	Genesis of the APP Rule	Pump Fundamentals
	10:00 – 10:15am	BREAK in Exhibition Hall	
	10:15 – 12:30pm	Elements of a Good Design	Part 1. Pump Fundamentals (cont) & Part 2. Level Controls (Types, system applications, operation)
	12:30 – 1:30pm	LUNCH in Exhibition Hall	
	1:30 – 3:15pm	Different Type 4 Technologies	Control Panels (Types, wiring diagrams & troubleshooting)
	3:15 – 3:30pm	BREAK in Exhibition Hall	
Saturday	3:30 -5:00pm	When Should Developers Use Alternative Systems?	Control Panel Applications (Design criteria, theory of operation)
	5:15 – 7:00pm	AzOWRA Mixer & BBQ – Onsite Pavillion	
	8:30 – 9:00am	Continental Breakfast & OPEN FORUM – Q&A – AZ Onsite Issues	
	9:00 – 10:00am	Exhibits Open	
	10:00 – 11:00am	Eljen GSF Technology	UV & De-nitrification
	11:00 – 11:15am	BREAK in Exhibition Hall	
	11:15 – 12:15pm	SeptiTech Technology	Constructed Wetland Treatment
	12:15 – 1:15pm	LUNCH in Exhibition Hall	
	1:30 – 2:00pm	SeptiTech Onsite Demonstration	Same As Track 1
	2:00 – 3:00pm	Eljen Onsite Demonstration	Same As Track 1

Lodging Options

Northern Arizona University is located at the intersection of two interstate highways, I-40 and I-17.



Flagstaff hotels are busy in the summer. You will want to make your reservations early. There are a number of reasonably priced hotels and motels just west of the South Campus and within easy walking distance. The hotels listed below are conveniently located and may provide free shuttle service to the campus.

Many of the major chains have more than one hotel in Flagstaff, so verify the address when you make your reservation.

AmeriSuites
2455 Beulah Blvd., Phone: 928-774-8042

LaQuinta Inn & Suites
2015 S. Beulah Blvd., Phone : 928-556-8666

Sleep Inn Flagstaff
2765 S. Woodlands Village Rd., Phone: 928-556-3000

Comfort Inn I-17 & I-40
2355 S. Beulah Blvd., Phone: 928-774-2225

Hilton Garden Inn Flagstaff
350 W. Forest Meadow St., 928-226-8888

Motel 6
2745 S. Woodlands Village, Phone: 928-779-3757

Quality Inn Flagstaff
2000 S. Milton Rd., Phone: 928-774-8771

Ramada Limited West
2755 Woodlands Village Blvd., Phone: 928-773-1111

Fairfield Inn by Marriott
2005 S. Milton Rd., Phone: 928-773-1300

Hampton Inn & Suites
2400 S. Beulah Blvd., Phone: 928-913-0900